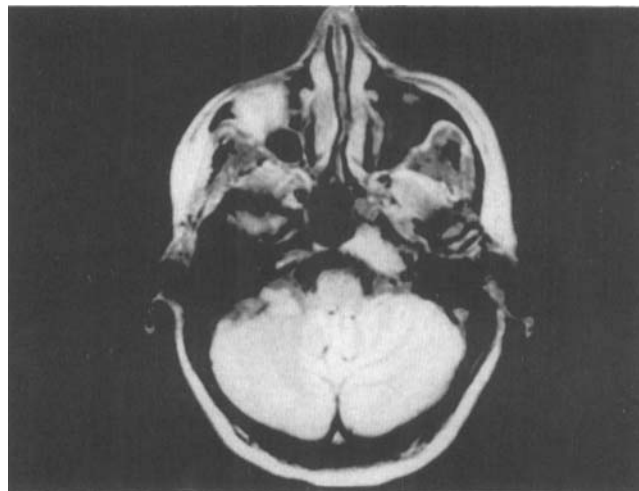


LETTERS AND  
CORRESPONDENCE

Letters and correspondence submitted for possible publication must be identified as such. Text length must not exceed 500 words and five bibliographic references. A single concise figure or table may be included if it is essential to support the communication. Letters not typed double-spaced will not be considered for publication. Letters not meeting these specifications will not be returned to authors. Letters to the Editor are utilized to communicate a single novel observation or finding. Correspondence is to be used to supplement or constructively comment on the contents of a publication in the journal and cannot exceed the restrictions for Letters to the Editor. The Editor reserves the right to shorten text, delete objectional comments, and make other changes to comply with the style of the journal. Permission for publication must be appended as a postscript. Submissions must be sent to Marcel E. Conrad, M.D., Associate Editor, American Journal of Hematology, USA Cancer Center, Mobile, Alabama 36688 to permit rapid consideration for publication.



**Fig. 1.** Cranial MRI showing plasmacytic mass with partial destruction of left petroclival region and extension to sphenoid sinus.

### Multiple Myeloma Presenting as Plasmacytoma of the Base of the Skull

*To the Editor:* Intracranial involvement is a rare presentation in patients with multiple myeloma (MM), and neurological complications are mostly in the form of cord or root compression due to vertebral collapse or extradural deposits of myeloma. Presentations such as meningeal involvement, invasion of the cerebral parenchyma, or space occupying-like lesions are rare [1,2]. We describe a case of plasmacytic tumor of the basal bone of the skull as the presenting form of MM.

A 40-year-old woman presented suddenly with diplopia and dysarthria. Neurological examination disclosed multiple left cranial nerve palsies that included the second, sixth, and twelfth. Cranial computerized tomography (CT) and magnetic resonance imaging (MRI) studies revealed an expanding tumor of the basal bone of the skull, with destruction of the left petroclival region, infiltration of soft tissues, and extension into the sphenoid sinus (Fig. 1). There were no lytic lesions of the cranial vault or other bone lytic lesions. A neurosurgical biopsy was performed with partial tumoral resection, and the histological analysis showed undifferentiated plasmacytic infiltration. Two months later, urinalysis disclosed lambda Bence Jones protein of 2 g/l, and bone marrow aspiration showed a plasmacytic infiltration compatible with MM.

Radiotherapy was administered (35 Gy) over the cranial base, followed by four cycles of vincristine + adriamycin + dexamethasone (VAD) regimen. A favorable response was achieved with reversion of neurological symptoms, disappearance of monoclonal protein on immunofixation, and reduction to <2% plasmatic cells in bone marrow aspirate. Cranial CT and MRI studies revealed regression of the intracranial mass.

Thereafter, the patient underwent autologous peripheral blood stem cell (PBSC) transplantation conditioned with high-dose busulfan (12 mg/kg) and melphalan (140 mg/m<sup>2</sup>). At present, 18 months after diagnosis, the patient is asymptomatic. Cranial CT and MRI studies 3 and 6 months after transplantation revealed minimum residual lesions of the basal bone of the skull.

Solitary bone plasmacytoma (SBP) represents the only disease feature in

approximately 5% of patients with MM. Local radiotherapy is usually effective, but most patients develop overt MM within 3 years, and only one third of patients remain stable for more than 10 years [3–5]. Two months after presentation, our patient progressed to overt MM, confirming the foregoing hypothesis. Plasma cell tumors involving the cranial vault are rare and usually do not originate with neurological symptoms, but lesions involving the cranial base may compress cranial nerves, as occurred in our patient. Tumors in this region are not easy to diagnose and must be distinguished from extracranial lesions extending intracranially, and from primary cranial process and intracranial lesions extending extracranially. The role of MRI in the staging of patients with SBP has been recently demonstrated [5]. The diagnosis of SBP is based on specific criteria that require a solitary plasma cell tumor without evidence of other disease. Finally, our patient was included in an intensification program with high-dose chemotherapy followed by autologous PBSC rescue, which was well tolerated without neurological toxicity. The patient remains in complete remission (CR) 18 months after diagnosis.

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### Inhibitors to Factor VIII:C in Nonhemophiliacs

*To the Editor:* The development of inhibitors to factor VIII:C in a nonhemophilic person is clinically significant due to life-threatening hemorrhagic complications. It occurs predominantly in adults without underlying disease, or it may occur in patients with collagen disease, drug reactions, neoplasms, and other disorders [1]. Measures to control inhibitors consist mainly of treatment of acute bleeding episodes with factor VIII concentrates, corticosteroids, and immunosuppressive drugs as long-term therapy [2-4]. We describe what we believe is the first reported patient with malignant melanoma developing the inhibitor to factor VIII:C.

In a 59-year-old woman who was previously healthy and with uninformative anamnesis, a huge hematoma appeared in the skin of her left wrist, with prolonged bleeding following a tooth extraction in 1988. The patient had been operated on for crural skin melanoma in 1986 and later treated with chemotherapy. She had a normal delivery 30 years earlier. She denied a family history of bleeding. The physical signs of anemia and large arm and thigh hematoma were noted. Clinical findings were otherwise normal. Laboratory data included hemoglobin (Hb) 100 g/L, RBC  $3.1 \times 10^{12}/L$ , WBC  $6.7 \times 10^9/L$ , blood urea nitrogen (BUN) 5.2 mmol/L, and alkaline phosphatase 51.5 U/L (normal up to 75 U/L). Bone marrow aspirate and abdominal ultrasound examination were normal. Immunological disorders were excluded. Bone radiography and scintigraphy were normal. Melanin in urine was negative. Hemostatic studies included fibrinogen 3.0 g/L, thrombin time (TT) 16" (12"), partial thromboplastin time (PTT) 83" (30"), factor VIII:C 1%, and inhibitor to factor VIII:C 32 Bethesda units/ml. Platelet aggregation with ADP, epinephrine, ristocetin, and collagen was normal. FDP was below 10  $\gamma$ .

Several times the patient had serious bleeding episodes following venipuncture, sternal puncture, and accidental cut of her hand. The patient was treated with cryoprecipitate, factor VIII concentrate (Hemate-Behring), and activated prothrombin complex within the periods of bleeding. In order to suppress the production of inhibitor, a simultaneous application of factor VIII (1,000 units) and cyclophosphamide (1 g) in five seances during 1988 and 1989 was also carried out. After initial success, factor VIII decreased again to a value of 1%, with a concomitant increase in an inhibitor titer to 40 Bethesda units. During the period 1988-1989, the patient received six courses of the protocol COP (cyclophosphamide 1 g, vincristine 2 mg, prednisolone 80 mg, 8 days), but without effect. In January 1990, a melanoma reappeared on a distal ulnar epiphysis of  $1 \times 1$ -cm diameter. Local irradiative therapy was applied. At that time, factor VIII:C activity was still less than 1% with the inhibitor titer of 45 Bethesda units.

Following completion of radiotherapy, 1,000 units of factor VIII concentrate and 1 g cyclophosphamide was administered each month for an integral period of 14 months. There was a gradual increase in factor VIII:C activity during the period 1990-1991, with a decrease in inhibitor titer. In April 1992, the patient had normal factor VIII:C activity and complete disappearance of the inhibitor. So far there are no signs of melanoma.

Inhibitors may disappear with remission or cure of the underlying disease [1-4]. They may disappear spontaneously even after many years. Green [2] was the first to demonstrate the clinical efficacy of cyclophosphamide and high doses of factor VIII given concomitantly in a patient with the acquired factor VIII inhibitor. In our patient, inhibitor disappeared after 4 years, possibly the result of chemotherapy applied concomitant with factor VIII concentrate.

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### Recombinant Interleukin-1 Followed by Immunosuppressive Therapy for Aplastic Anemia

*To the Editor:* Between October 1991 and February 1993, we treated six patients with severe idiopathic aplastic anemia with recombinant interleukin-1 alpha (rhuIL-1 $\alpha$ ). Patients  $\geq 10$  years of age who had acquired aplastic anemia as defined by the International Aplastic Anemia Study Group were eligible for study [1]. Patients had not received other cytokine therapy for at least 4 weeks prior to study entry. Informed consent was obtained using forms approved by the Institutional Review Board of the Fred Hutchinson Cancer Research Center. Patient characteristics, treatment and response to therapy are summarized in Table I.

The treatment schedule was as follows: rhuIL-1 $\alpha$  produced in *Escherichia coli* (Immunex Corp., Seattle, WA) was administered intravenously over 6 hours daily for 5 days. Three patients received daily doses of 0.1  $\mu\text{g}/\text{m}^2/\text{day}$  and 3 patients received 0.3  $\mu\text{g}/\text{m}^2/\text{day}$ . Immunosuppressive therapy was begun a minimum of six days after completing rhuIL-1 $\alpha$  (range = 6-17 days). Five patients received horse anti-human thymocyte globulin (ATGAM<sup>®</sup>, Upjohn Co., Kalamazoo, MI), 15 mg IgG/kg intravenously, and methylprednisolone, 0.5 mg/kg intravenously, daily for 10 days. Two days after completing ATGAM<sup>®</sup>, oxymetholone (3 mg/kg p.o. daily) was begun and continued for at least 3 months. One patient had oxymetholone discontinued early because of elevated liver function tests. One patient who had a positive skin test to ATGAM<sup>®</sup> was treated with cyclosporine, 6 mg/kg p.o. BID for 3 months and prednisone, 4 mg/kg p.o. daily for 8 days, followed by a taper over 3 weeks.

Toxicity of rhuIL-1 $\alpha$  included fever  $>38.0^\circ\text{C}$  ( $n = 4$ ), chills ( $n = 3$ ), headaches ( $n = 3$ ), hypertension (transient increase of  $\geq 20$  mm Hg) ( $n = 5$ ), hypotension (systolic pressure  $<100$  mm Hg) ( $n = 4$ ), myalgias or arthralgias ( $n = 2$ ), and tachycardia (rate  $>100/\text{min}$ ) ( $n = 2$ ). All side effects were mild and no patient required attenuation of any rhuIL-1 $\alpha$  dose. These side effects are similar to those previously reported [2]. No patient had any change in peripheral counts following completion of rhuIL-1 $\alpha$ . Marrow aspirates and biopsies performed one day after completing rhuIL-1 $\alpha$  therapy showed no increase in cellularity or change in morphology in five evaluable patients.

Initial response to immunosuppressive therapy was assessed according to previously published criteria [3]. By day 75 two patients had a minimal response and four were nonresponders. All patients except one nonresponder received subsequent therapy (see Table I). No patient has had evidence of evolution to paroxysmal nocturnal hemoglobinuria or a myelodysplastic syndrome. Five patients are surviving 17.1-29.8 months; one died at 22 months from septicemia.